

**System and Method for Dynamically Adjusting
Read Ahead Values Based Upon Memory Usage**

ABSTRACT

A system and method for dynamically altering a Virtual
5 Memory Manager (VMM) Sequential-Access Read Ahead settings
based upon current system memory conditions is provided.
Normal VMM operations are performed using the Sequential-
Access Read Ahead values set by the user. When low memory
is detected, the system either turns off Sequential-Access
10 Read Ahead operations or decreases the maximum page ahead
(maxpgahead) value based upon whether the amount of free
space is simply low or has reached a critically low level.
The altered VMM Sequential-Access Read Ahead state remains
in effect until enough free space is available so that
15 normal VMM Sequential-Access Read Ahead operations can be
performed (at which point the altered Sequential-Access
Read Ahead values are reset to their original levels).